

SECTION 9A

GYPSUM WALLBOARD

1. APPLICABLE PUBLICATIONS: The American Society for Testing and Materials (ASTM) Publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

C 36-80	Gypsum Wallboard
C 475-81	Joint Treatment Materials for Gypsum Wallboard Construction
C 645-81	Nonload (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board
C 646-78	Steel Drill Screws for the Application of Gypsum Board to Light-Gage Steel Studs
C 754-79	Installation of Steel Framing Members to Receive Screw-Attached Gypsum Wallboard, Backing Board or Water-Resistant Backing Board
C 840-79	Application and Finishing of Gypsum Board

2. GENERAL REQUIREMENTS: Except where otherwise indicated or specified, the work shall conform to ASTM C 645, 754, and 840. Gypsum wallboard shall be applied as indicated in the finish schedule.

3. SUBMITTALS: Certificates attesting that the steel framing and wallboard meet the requirements specified shall be furnished in accordance with the SPECIAL PROVISIONS.

4. DELIVERY AND STORAGE: Wallboard delivered prior to use shall be stored off the ground within a completely enclosed structure or completely enclosed within a weathertight covering. Wallboard shall be dry, free of warpage, and have bundling tape intact immediately prior to use. Application shall commence only after the structure is completely weather-tight.

5. MATERIALS: Materials shall conform to the requirements specified below. Miscellaneous items not otherwise specified shall be recommended by the wallboard manufacturer and approved prior to use. Powder driven fasteners may be used only when approved in writing.

5.1 Steel Framing, Furring, and Related Items: ASTM C 645.

5.2 Gypsum Wallboard: ASTM C 36, 48 inches wide, 5/8-inch thick, tapered edges.

5.3 Joint Treatment Materials: ASTM C 475.

5.3.1 Taping or Embedding Compound: Specifically formulated and manufactured for use in embedding tape at gypsum wallboard joints and fastener heads and completely compatible with tape and substrate.

5.3.2 Finishing or Topping Compound: Specifically formulated and manufactured for use as a finishing compound.

5.3.3 All-Purpose Compound: Specifically formulated and manufactured to serve as both a taping and a finishing compound and compatible with tape and substrate.

5.3.4 Joint Tape: Reinforcing tape recommended by the manufacturer.

5.4 Screws: ASTM C 646. Steel self-drilling and self-tapping screws, for application of wallboard to metal framing.

5.5 Cornerbead and Edge Trim: Corrosion protective-coated steel designed for its intended use. Flanges shall be free of dirt, grease, and other materials that may adversely affect the bond of joint treatment.

6. STEEL FRAMING: Installation of steel framing shall conform to ASTM C 754. Framing shall be spaced at 16-inches on center.

6.1 Partition Framing System: Metal framing system shall be capable of carrying a transverse load of 5 psf without exceeding either the allowable stress or a deflection of $L/240$. Studs shall be 0.0179-inch minimum thickness for partitions having the same material and the same material thickness on both sides for the full height, or be otherwise supported to insure rigidity.

6.2 Special Framing: Framing for beams, columns, soffits, and other special items shall be built to the sizes, shapes, or forms indicated and shall be rigidly secured to each intersection with wallboard screws.

6.3 Wall Openings: For wall openings such as required for doors, the framing system shall provide for the installation and anchorage of the required subframes or finish frames. Steel frames shall be securely attached through built-in anchors to the nearest stud on each side of the opening with wallboard screws or double strands of tie wire.

7. APPLICATION OF GYPSUM WALLBOARD: Gypsum wallboard shall be applied to framing and furring members in accordance with ASTM C 840 and the requirements specified herein. Gypsum wallboard shall be applied with separate boards in moderate contact without forcing in place. End joints of adjoining boards shall be staggered. Abutting end and edge joints shall be neatly fitted. Use gypsum wallboard of maximum practical length. Gypsum wallboard shall be cut as required to make neat close joints around openings. In vertical application of gypsum wallboard, panels shall be of length required to reach full height of vertical surfaces in one continuous piece.

7.1 Single-Ply Gypsum Wallboard: Single-ply gypsum wallboard shall be applied to steel framing and furring in accordance with ASTM C 840, System VIII.

7.2 Joints: Control joints in walls shall be one piece manufactured products and shall be in accordance with ASTM C 840, System XIII.

8. FINISHING OF GYPSUM WALLBOARD: Gypsum wallboard shall be taped and finished in accordance with ASTM C 840. Joint, fastener depression, and corner treatment shall be provided.

9. PATCHING: Surface defects and damage shall be corrected as required to leave gypsum wallboard smooth, uniform in appearance, and ready to receive finish as specified.